

Figure 1

9909000900	cgccgcccgc	ceggeceecg	getgeeteee	ttcctccctc	cctctctttc	tecettgege	tegetegete	getegeeete	ggcgcatggg	100
ccccgcgccg	ggccccgggg	cctcgggccg	cctggcctcc	ggggtcccct	aggeeeggge	gtgggcgggg	cageceggee	t gaegeagee	tetgtacccc	200
ассассасса	ccaccagggc	cggcggcggc	ggctgccccg	agggacgggg	ccctaggcgg	tggcgATGGG M G	GGCCGTCCGG A U R	ATCGCGCCCG I R P G	GCCTGGCGCT L A L	300
GCTGCTCTGC L L C	TGCCCGGTGC C P U L	TCAGCTCCGC S S A	GТАСССССТС	GTGGATGCAG U D A D	ATGACGTCAT B V M	GACCAAAGAG T K E	GAGCAGATCT E Q I F	TCCTGCTGCA L L H	CCGCGCCCAG R A Q	400
GCCCAGTGCC A Q C Q	AGAAGCGGCT K R L		CTGCAGAGGC L Q R P			GRCARAGGAT D K G W	GGGCTTCTGC A S A	ATCCACATCA S T S	GGGAAGCCTA G K P K	500
AGRAAGAGAA K E K	GGCATCTGGG A S G	AAGCTCTACC K L Y P	CTGAGTCCGA E S E	GSAGGACAAG E D K	GAGGTGCCCA E V P T	CTGGCAGCAG G S R	GCACCGAGGG H R G	CGCCCCTGCC R P C L		600
	CTTTGCTGGC L C W P	CGCTGGGGGC L G A		GTGGTGGCTG U U A U	TGCCCTGTCC P C P	CGACTACATT D Y I	TATGACTICA Y D F N	ATCACAAAGG H K G	CCATGCCTAC H A Y	700
CGTCGCTGTG R R C D	ACCGCAATGG R N G		CTGGTGCCTG L V P G	GACACAACCG H N R	GACGTGGGCC T W A	AACTACAGCG N Y S E	AGTGTGTCAR C V K	GTTCCTGACC F L T	ARCGAGACTC N E T R	800
GTGAACGGGA E R E		CGC <u>CIGGGCA</u> R L G M	TGATCIACAC I Y T	CGTGGGCTAC V G Y	1006161060	TGGCCTCCCT A S L	CACCGTGGCC T U A II	GIGCICATCC U L I L	TGGCDTACTT A Y F	900
	CACTGCACAC H C T R	GCAACTACAT N Y I	ссяс <u>ніссяс</u> н м н	CIGITCCTGT L F L S	CCTTCATGCT F M L	TCGCGCCGTG R A V		TCAAGGACGC K D A	O L Y	1000
TCGGGCGCCA S G A T		GGCCGAGCGC A E A	CTCACGGAGG L T E E	ARGAGCTGCG E L R	CGCCAT CGCC A I A	CAGGCACCCC Q A P P	CGCCGCCCAC P P T	ннн	GGCTACGCGG G Y A G	1100
Taaaaaaaaa	AGCTGTGACC	TICTICCITI	ATTICCIGGO	CACCAACTAC	TACTGGATTC	TGGTGGRGGG			TCTTCHTGGD	1200
C R U	A U T	FFLY	FLA	Y H T	Y H 1 L	UEG	LYL	H S L I	F M A	
C R U	AUT	F F L Y	FLA	T N Y  TICGGCIGGG F G H G	9 H I L	IV E G	CTGTGTGGG	H S L I	F M A	1300
C R U CTTCTTCTCA F F S	A U T GRGAAGAAGT E K K Y GGTGCTGGGA	ACCTOTTGGGG	F L A CTTCACGGTC F T U	T N Y  TICGGCTGGG F G H G  AGTGGATCAT	GTCTGCCCGC L P A	U E G  CGICIICGIG U F U  ATCCIGGCCI	CTATTGTGCT	TCAGCGIGAG SUR	F M A  AGCCACCCTO A T L  ITGITCATCA	1300
C R U  CTICITOTCH F F S  GCCAACACAG R N T G  ACATCGTCCG I U R	A U T GRGARGARGT E K K Y GGTGCTGGGA C H D GGTGCTCGCC U L A	F F L Y  ACCTGTGGGG L H G  CTTGAGCTCC L S S	F L A  CTTCACGGTC F T U  GGGAACAAGA G N K K  GGGAGACCAA	T N Y  TTCGCCTGGG F G H G  AGTGGATCAT H I I  TGCCGGCCGG	Y H I L  GTCTGCCCGC L P A  CCAGGTGCCC Q U P	CGTCTTCGTG U F U  ATCCTGGCCT I L A S GGCAGCAGTA	CTRITIGIGGI  CTRITIGIGGI  U U U  CTRITIGIGGI  CTRITICION  CTRITICI	TCAGCGTGAG S U R V CAACTICATC	AGCCACCCIG A T L TIGITCATCA L F   N CACIGGIGCI	
C R U  CTICITOTOR F F S  CCCARCACO R N T G  ACRICCICCO U R  CRISCOCIC	A U T GRGARGARGT E K K Y GGTGCTGGGA C H D GGTGCTCGCC U L A //	F F L Y  ACCTOTIGGGG L W G  CTTGAGCTCC L S S  ACCIAAGCTGC T K L B  ACTACATCGI Y I V	F L R CTTCACGGTC F T V GGGAACAAGA G N K K GGGAGACCAA E T N CTTCATGGCC	T N V  TTCGGCTGGG F G H G  AGTGGATCAT H I I  TGCCGGCCGG R G A	Y H I L  GTCTGCCCGC L P R  CCAGGTGCCC Q U P  TGTGACACGC C D T R  CCGAGGTCTC	CGTCTTCGTG U F U  ATCCTGGCCT I L A S  GGCAGCAGTA Q Q Y  AGGGAGCACTC	GCTGTGTGGG R U H U  CTATTGTGCT I U L  CCGGAAGCTG R K L  TGGCAAGTCC	TCHACCTICATO  S U R  V  CARCTICATO  N F I  CICARATICAT  L K S T  AGATGCACTA	AGCCACCCIG A T L TIGITCATCA L F I N CACIGGIGCI	1400
C R U  CTICITOTCA F F S  GCCAACACGG R N T G  ACATCGICCG I U R  CATGCCGCIC H P L	A U T GRGHAGARGT E K K Y GGTGCTGGGA C H D GGTGCTCGCC U L A /I TITGGCGTCC F G U H TCCAGGGGATI	RECORDERS S  ACCIDENCE L S S	F L R  CTTCACGGTC F T V  GGGAACAAGA G N K K  GGGAGACCAA E T N  CTTCATGGCC F M A	T N Y  TTGGCTGGG F G H G  RGTGGATCAT H I I  TGCCGGCCGG R G R  ACGCCGTACA T P Y T  GTILCTGCAA	Y W I L GTCTGCCCGC L P A CCAGGTGCCC Q U P TGTGACACGC C D T A CCGAGGTCTC E U S	CGTCTTCGTG U F U  RTCCTGGCCT I L A S GGCAGCAGTA Q Q Y  AGGGACGCTC G T L	CTATTGTGCT  I U L  CCGGAAGCTG  R K L  TGGCAAGTCC  U Q U Q  TCAAGAAATC	TCAGCGIGAG S U R V CARCTICATO N F I CICARATCCA L K S T AGATGCACTA N H Y	A T L  TIGITICATEA  L F I N  CACIGGIGCI  L V L  CGAGAIGCIC	1400
C R U  CTICITOTOR F F S  GCCHACACOG R N T G  ACATCGICCG I U R  CHIGCCGCIC H P L  TICARCICCI F N S F	A U T GRGHAGARGT E K K Y GGTGCTGGGA C H D GGTGCTCGCC U L A /I TITIGGCGTCC F G U H TCCAGGGATT Q G F	F F L Y  ACCTOTIGGGG L W G  CTTGAGCTCC L S S  ACCIAAGCTGC T K L A  ACTACATCGT V I U  VII  TITTGTCGCC F U A	F L R  CTTCACGGTC F T U  GGGAACAAGA G N K K  GGGAGACCAA E T N  CTTCATGGCC F M A  ATCATATACT I I Y C  GGAGCAGCAG	T N V  TTCGGCTGGG F G H G  AGTGGATCAT H I I  TGCCGGCCGG R G A  ACGCCGTACA T P Y T  GTTTCTGCAA F C N	Q U P  TGTGACACGC C D T R  CCGAGGTCTC E U S  TGGCCAGGTA G E U	CGTCTTCGTG U F U  ATCCTGGCCT I L A S  GGCAGCAGTA Q Q Y  AGGGACCGTC G T L  CAGGCCGAGA Q A E I  TGTCTCACAC	GCTGTGTGGGG R U H U  CTATTGTGCT I U L  CCGGAAGCTG R K L  TGGCAAGTCC H Q U Q  TCAAGAAATC K K S	TCAGCGIGAGCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG	A T L  TIGHTCATCA  CACTGGGGCT  L V L  CGAGATGCTC  E N L  TIGGACACTGG  H T L A	1400 1500 1600
C R U  CTICITOTCA F F S  GCCAACACCG R N T G  ACATCGTCCG U R  CATGCCGCTC H P L  TICAACCCCT F N S F  CCCTGGACTT L D F	GREGARGARGT E K K Y GGTGCTGGGA C H D GGTGCTCGCC U L A /I TITGGCGTCC F G U H TCCAGGGATT Q G F CAAGCGCAAG K R K CCCCTCAGCC	RECORDER L Y RECORDER L W G CTTGAGCTCC L S S RECORRECTEC T K L R RETHERICGI Y I U VII TITTGTCGCC F U R GCCCGRAGTG R S G	F L R CTTCACGGTC F T V GGGAACAAGA G N K K GGGAGACCAA E T N CTTCATGGCC F M A ATCATATACT I I Y C GGAGCAGCAG S S S GCCCGCCGCT	T N V  TTGGGCTGGG F G H G  RGTGGATCAT H I I  TGCCGGCCGG A G A  ACGCCGTACA T P Y T  GTTTCTGCAA F C N  TTACAGCTAC Y S Y	Y H I L  GTCTGCCCGC L P R  CCAGGTGCCC Q U P  TGTGACACGC C D T R  CCGAGGTCTC E U S  TGGCCAGGTATGG G E U  GGCCCGATGG G P M U  CCACCGCCAC	CGTCTTCGCCT  ATCCTGGCCT  ATCCTGGCCT  AGGGACGAGTA  AGGGACGCTC  AGGCAACGGC  AGGGACGCTC  AGGCAACGCC  AGGGACGCTC  AGGGACC  A	COCCCCCGA	H S L I  TCAGCGIGAG S U R  V  CAACTICATO H F I  CICARATICA L K S T  AGATGCACTA M H Y  CTGGAGCCGO H S R  AACGTAGGCC N U G F	AGCCACCCIG A T L  ITGTICATCA L F I N  CRCIGGIGCII L U L  CGAGAIGCID E H L  TGGACACTGG H T L A  CCCCGCGCGGG R A G	1400 1500 1600 1700
C R U  CTICITOTOR F F S  GCCRACACOG R N T G  RCATGGICCG I U R  CATGGCGCIC H P L  TICARCICCI F N S F  CCCTGGACTT L D F  ACTIGGCCTG L G L  GGGGCCCCGA	GREATER COCCUERCE COCCUERC	F F L Y  ACCTOTIGGGG L W G  CTTGAGCTCC L S S  ACCIAAGCTGC T K L A  ACCTCATCGI V I V  VII  TITTGTCGCC F U A  GCCCGAAGTG A R S G  CCCGCCTGCT R L L	F L R  CTTCACGGTC F T U  GGGAACAAGA G N K K  GGGAGACCAA E T N  CTTCATGGCC F M A  ATCATATACT I I Y C  GGAGCAGCAGCAG S S S  GCCCGCCGCT P A A	T N V  TTGGCTGGG F G H G  AGTGGATCAT H I I  TGCCGGCCGG A G R  ACGCCGTACA T P Y T  GTTTCTGCAA F C N  TTACAGCTAC Y S Y  GCCGCCACCA A A T T	Y H I L  GTCTGCCCGC L P A  CCAGGTGCCC Q U P  TGTGACACGC C D T A  CCGAGGTCTC E U S  TGGCCGAGGTA G E U  GGCCCGATGG G P M U  CCACCGCCAC T A T	CGTCTTCGTG U F U  ATCCTGGCCT I L A S  GGCAGCAGTA Q Q Y  AGGGACCGTC G T L  CAGGCCGAGA Q A E I  TGTCTCACAC S H T  CACCAACGGC T N G	CTGCTCGGGGA	TCAGCGGGCCA  TCAGCGGGCCA  TCCCGGGCCA  TCCCGGGCCA  TCCCCGGGCCA  TCCCCGGGCCA  TCCCCGGGCCA  TCCCCGGGCCA  TCCCCGGGCCA	AGCCACCCIG A T L  ITGTICATCA L F I N  CRCIGGIGCII L U L  CGAGAIGCID E H L  TGGACACTGG H T L A  CCCCGCGCGGG R A G	1400 1500 1600 1700 1800
C R U  CTICITOTOR F F S  GCCARCACOG R N T G  ACRICGICCG I U R  CRIGCOGCIC M P L  TICARCICCI F N S F  CCCTGGACTT L D F  ACTIGGCCTG L G L  GGGGCCCCGA G A P T	A U T GRGHRGHRGTE K K Y GGTGCTGGGA C H D GGTGCTCGCC U L A TITIGGCGTCC F G U H TCCRGGGRIT Q G F CRAGCGCARG K R K CCCCTCRGCC P L S P CCCTCCCGGC L P A GCCTCCCGCC	RECTOREGES L W G CTTGAGCTCC L S S RCDAAGCTGC T K L R ACTACATCGT V I V VII TITTGTCGCC F U R GCCCGAAGTG A R S G CCCGCCTGCT R L L CACACCACCT T P P	F L R  CITCHCGGTC F T U  GGGARCHAGA G N K K  GGGAGACCHA E T N  CITCHIGGCC F H R  ATCHIHICI I I Y C  GGAGCAGCAG S S S  GCCCGCCGCT P A A  GCCACGGCTG A T A F  AGGRGTGGGG	T N V  TTGGGCTGGG F G H G  AGTGGATCAT H I I  TGCCGGCCGG A G A  ACGCCGTACA T P Y T  GTTTGCAGA F C N  TTACAGCTAC Y S Y  GCCGCCACCA A A T T  CTCCCAAGGA I P K D  GACGGCTCATG	CACCGCCAC  CCACCGCCAC  CCACCCCCCCAC  CCACCCCCCCAC  CCACCCCCC	CGTCTTCGTG U F U  ATCCTGGCCT I L A S  GGCAGCAGTA Q Q Y  AGGGACCGTC G T L  CAGGCCGAGA Q A E I  TGTCTCACAC S H T  CACCAACGGC T N G  CTCAACGGCT L N G S	C S G	TCAGCGIGAGE  S U R  V  CARCTICATO  N F I  CICARATCCA  L K S T  AGATGCACTA  M H Y  CTGGAGCCGC  H S R  AACGTAGGCCGC  H U G F  TCCCGGGCCA  P G H  GCTGGACCACA  L D E	A T L  ITGTICATEA  L F I N  CACTGGGGCT  L V L  CGAGATGCTC  E N L  TGGACACCTGG  H T L A  CCCCGCGCGGGG  R A G  CACCAAGCCA  T K P  GGAGGCCTCCG	1400 1500 1600 1700 1800

	Figure 2	
dPTH1	ATGGGGGCCG TCCGGATCGC CCCCGGCCTG GCGCTGCTGC TCTGCTGCCC CGCTCAGC TCCGCGTAGG CGCTG	75 75
rPTH1	ATGGGGGCCG CCCGGATCGC WCCCAGCCTG GCGCTGCTAC TCTGCTGCCC AGTGCTCAGC TCCGCATATG CGCTG ATGGGGGCCG CCCGGATCGC WCCCAGCCTG GCGCTGCTTC TCTGCTGCCC AGTGCTCAGC TCCGCATATG CGCTG	75 75
mPTH1 hPTH1	ATGGGGACCG CCGGATCGC CCCCGGCCTG GCGCTCCTCC TCTGCTGCCC CGTGCTCAGC TCCGCGTACG CGCTG	75
2		
dPTH1		150
rPTH1	- Ictoralicado amenhoratr marmanagas sancasatir Tectscisca ecullulucas subcami ul simplamo	15Ø 15Ø
mPTH1	GTGGAGGGAG ADGATGTOTT HACGAAAGAG GAACAGATTT TCCTGCTGCA CCGTGCTCAG GCGCAATTGTG ADAAG GTGGATGGAG ATGAGGTGAT BACTAAAGAG GAACAGATTGT TCCTGCTGCA CCGTGCTCAG GCCCAATTGCG AAAAA	150
hPTH1	GTGGA GGGAG ANGANGTUAT BAGNAAAAA GANAAAAA ITTEETUETUU EURAAAAA	
	The control of the co	225
dPTH1	CHECTCARAG AMETICTECA BAGGICAGOT GACATAATEG AMTCAGACAA HEGITTEGAIT TOTECATORA CHICA CHECTCARAG AMETICTECA DACAGCAGOC AACATAATEG AMTCAGACAA HEGITTEGAIDA COMECATORA CHICA	225
rPTH1 mPTH1	- ICHCCTCANGCANCTHICTGCA HAMAGAGAGACAAATAATAG AHILAAAAAA MUUHILUUHUI UCMUUNIYIY YIM	225
hPTH1	COGCTCAAGG AGGTOCTGCA GAGGOCAGOC AGCATAATGG ANTCAGACAA GGGATGOADA TCHGCOTTODA CATCA	225
dPTH1	GGGAAGCOTA MGAAAGAGAA GGCATIOTIGGG AAGOTCTACC CHIGAGTOCGA GGAGGACAAG GAGGTOCCCA CHIGAG	300 300
rPTH1	GGGAAGCO A AGAAAGAGAA GGCATIOGGGA AAGTITCTACC CITGAGTOTAA AGAGAACAAG GADGTGCCCA COGGC GGGAAGCOO GGAAAGAGAA GGCAOOGGA AAGTITCTACC COGAGTOTAA AGAGAACAAG GATIGTGCCCA COGGC GGGAAGCOO GGAAAGAGAA GGCAOOGGA AAGTITCTACC COGAGTOTAA AGAGAACAAG GATIGTGCCCA COGGC	300
mPTH1 hPTH1	GGGAAGCOOA BGAAAGATAA GGCATIOTGGG AAGOTCTACC CTGAGTOTGA BGAGGACAAG GALGCACCCA CTGGC	300
III I III I		
IDTUS	AGCAGGCAGC GAGGGCGGCC CTGGCTGCCC GAGTGGGAGC ACATCGTTTG CTGGCCGGTG GGGGCACCAG GTGAG	375
dPTH1 rPTH1	Laccacdodda Icagggoddion o'rddiotgodd Iagarafagana Anagariae o'r Goldan I Iagarafa Charles a charactar a charl	375
mPTH1	A COLO CHO A COCO CONTICO CONTICO CONTICO A CANTA CALCALIA I I A LA CALCALIA I I I A CALCALIA I I I I I I I I I I I I I I I I I I	375 375
hPTH1	AGCAGGTAGE GAGGGCGCC CTGTCTGCCG GAATGGGACC ACATCTTGTG CTGGCCGGTG GGGCACCAG GTGAG	
	DOTAL SIPERIOR OF THE STATE OF	450
dPTH1	GTGGTGGD TO THECOTTGTCC DEALTACATT TATGACTICA ATCACAAAGG CCATGCCTAC DETECTING ACCGC GTGGTGGDAG THECOTTGTCC DEALTACATT TATGACTICA ATCACAAAGG CCATGCCTAC AGACGCTGIG ACCGC	450
rPTH1 mPTH1	INTERPOLACE TARCHITETEE MEANITACATT TATGACTTEA ANCACAGAGG CLAIGULIAC MONUGUINNO ACCOM	45Ø 45Ø
hPTH1	GTEGTEGOTE TECOTETECE EGACTACATT TATGACTICA ATCACAAAGG CCATGCCTAC EGACGCTGTG ACCGC	430
dPTH1	AATGCCAGCT GGGAGGTGGT GCCTGGACAC AACGGGACGT GGGCCAACTA CAGCGAGTGT GTCAAGTTCC TGACC AATGGCAGCT GGGAGGTGGT TCCAGGGCAC AACGGGACGT GGGCCAACTA CAGCGAGTGC CTCAAGTTCA TGACC	525 525
rPTH1	INTERCACE CONTROL OF THE PROPERTY OF THE PROPE	525
mPTH1 hPTH1	AATGGCAGCT GGGAGGTGGT GCCTIGGGCAC AACAGGACGT GGGCCAACTA CAGCGAGTGT GTCAAATTTC THACC	525
dPTH1	AAGGAGAGIC GIGAACGGGA GGTGTTTGAC CGCCTGGGCA TGATGTACAC CGTGGGGTAC TCCGTGTCC TGGC	600 600
rPTH1	ANIGAGADEC GIGAACGGA GGTATTTGAC CGCCTAGGCA TGATCTACAC CGTGGGATAC TCCATGTCTC TIGCC ANIGAGACTC GGGAACGGGA GGTATTTGAC CGCCTGGGCA TGATCTACAC CGTGGGATAT TCCATGTCTC TIGCC ANIGAGACTC GGGAACGGGA GGTATTTGAC CGCCTGGGCA TGATCTACAC CGTGGGATAT TCCATGTCTC TIGCC	600
mPTH1 hPTH1	AAIIGAGAQIC GIIGAACGGGA GGTATTTGAC CGCCTGGGCA TGATITTACAC CGTGGGCTAC TCCTTGTCC TGCG	600
петил		
ARTHI	TCCCTCAGG THEOGETECT CATCCTHECC TAGTTHAGGC GECTECACTE CACHCECAAC TACATCCACA TECAC	675
dPTH1 rPTH1	TCCCTCAGG TEGGTEGCT CATCCTGGCC TATTTTAGGC GGCTGCACTG CACGCGCAAC TACATCCACA TGCAG	675 675
mPTH1	TCCCTCAGG TAGGIGTECT CATCCINGCC TANTITIAGGE GETTECACTE CACACGEAC TACATCEACA TACAC TCCCTCAGG TAGGIGTECT CATCCINGCC TANTITIAGGE GECTECACTE CACACGEAC TACATCEACA TECAC TCCCTCAGG TAGGIGTECT CATCCINGCC TACTITIAGGE GECTECACTE CACACGEAC TACATCEACA TECAC	675
hPTH1	TCCCTCAQUE IAGUIGITECT CATCCIQUEC TAQUINAMOR COCTOCACTO STOPESTOR	
	TOOL ASSESSED TO THE TOTAL PROPERTY OF THE T	75 <b>0</b>
dPTH1	ATGITECTET CATTRATECT ACCECCENTS AGCATETICS TRANSGACGE AGGETETAC TELEGORIES ACCTOR ATGITECTES CETTAL ACCOUNTS ACCOUNTS ACCORD TO A COURT OF A C	758
rPTH1 mPTH1	ATOTTOCTOT CHITHATOOT MCCCCCCAAC ACCATOTICS THANGSACEL HE ISLUTION I CHICAGO IN COUR	75Ø 75Ø
hPTH1	TETTECTET COTTICATECT ECGCECCETE AGCATETICE THAAGGACGE HETECTETAC TENEGOGICA CECTI	/ 50
		205
dPTH1	GAGGAGGGG AGCGCCTCAC GGAGGAGGAG DTGCGCCGCA TCGCCCAGGC ACCCCCGCCG CCCACCGCGG CCGCC	825 812
rPTH1	GATGAGGGGG AGCGCCTCAC AGAGGAAGAG HTGCACATCA TCGCGCAGGTGCCGCCT CCGCC GATGAGGGGG AGCGCCTCAC GGAGGAAGAG HTGCATATCA TCGCGCAGGTGCCGCCT CCGCC	812
mPTH1 hPTH1	GATGAGGG G AGCGCCTCAC GGAGGAGGAG TTGCGCGCA TCGCCCAGGC GCCCCGCCG CCTGCCACCG CCCC	824
dPTH1	GGCT ACGOGGGCTG CAGGGTAGGT GTGACCTTCT TCCTHTATTT CCTGGGTACC AACTA	884
rPTH1		
mPTH1	CGCCGCTGCC GCCGTTGGGT ACGCTGGCTG CCGTGTGGGC GTGACCTTCT TCCTTTACTT CCTGGCTACC AACTA	887
hPTH1		•
	CONTROLL CICCOCACC CHOICEAND BEAMACHETE ATCTICATES COTTOTICE AGAGAAGAAG TADCI	959
dPTH1 rPTH1	CTACTGGATT CTGGTGGAGG GCTGTAQTT CCATAGTCTC ATCTTCATGG CCTTTTTCTC AGAGAAGAAG TALCT CTACTGGATT CTGGTGGAGG GGCTGTAQTT GCACAGGCTC ATCTTCATGG CCTTTTTCTC AGAGAAGAAG TALCT	962
· mPTH1	CTACTGGATT CTGGTGGAGG GACTGTACTT ACADAGCTC ATCTTCATGG CCTTTTTCTC AGAGAAGAAG TATCT CTACTGGATT CTGGTGGAGG GACTGTACTT ACADAGCTC ATCTTCATGG CCTTTTTCTC AGAGAAGAAG TATC	962 962
hPTH1	CTACTGGATT CTGGTGGAGG GACTGTAYYT PLAYAGYCTC ATCTTCATGG CCTTYTTCTC AGAGAAGAAG TAPE	7

Figure	2	con	•	t
--------	---	-----	---	---

	Figure 2 con't	
dPTH1 rPTH1 mPTH1	GTGGGGCTTC ACCOTTIGG GCTGGGGTCT GCCGGCGGTC TICGTGGCTG TGTGGGTCAG CGTAGAGGC ACCOTT 103 GTGGGGCTTC ACCATCTTIG GCTGGGGTCT ACCAGGTGTC TICGTGGCTG TGTGGGTCGG TGTCAGAGGA ACCOTT 103 GTGGGGCTTC ACCATCTTIG GCTGGGGTCT GCCGGGTGTC TICGTGGCTG TGTGGGTCGG TGTCAGAGGA ACCOTT 103 GTGGGGCTTC ACAGTCTTIG GCTGGGGTCT GCCGGGTGTC TTCGTGGCTG TGTGGGTCAG TGTTAGAGGT ACCOTT 103	37 37
MPTH1  dPTH1  rPTH1	GGCCAACAC GGGTGCTGGG ACTTGAGCTC DGGGAACAAG AAGTGGATCA TCCAGGTGCC CATCCTGGC FCFAT 11	<b>8</b> 9 12
mPTH1 hPTH1	GGCCAACAGT GGGTGCTGGG ACTTGAGCTC TGGGGACAAA AAGTGGATCA TCCAGGTGCC CATCCTGGGA TCLAT 11	12
dPTH1 rPTH1 mPTH1 hPTH1	TGTGCTCAAC TTCATQTTGT TCATCAACAT CETCCGGGTG CTEGCCACCA AGCTECGGGA GACCAATGGC GGCCG 11 TGTGCTCAAC TTCATQCTTT TTATCAACAT CATCCGGGTG CTEGCCACTA AGCTECGGGA GACCAATGGG GGCCG 11 TGTGCTCAAC TTCATQCTCT TTATCAACAT CATCCGGGTG CTEGCCACTA AGCTECGGGA GACCAATGGG GGCCG 11 TGTGCTCAAC TTCATQCTCT TCATCAATAT CETCCGGGTG CTEGCCACCA AGCTECGGGA GACCAACGGC GGCCG 11	87 87
dPTH1 rPTH1 mPTH1 hPTH1	GTGTGACAGE AGGCAGCAGT ACCGGAAGCT GCTCAGGTCC ACGTTGGTGC TITGTGCCACT CTTGGGTGTC CACTA 12	62
dPTH1 rPTH1 mPTH1 hPTH1	CATGGTETTE ATGGEGATGE CHTACACCGA GGTETCAGGG ACATTGTGGC AGATCCAGAT GCATTAGGAG ATGET 13 CACGGTETTE ATGGEGATGC CHTACACCGA GGTETCAGGG ACATTGTGGC AGATCCAGAT GCATTAGGAG ATGCT 13	134 137 137 137
dPTH1 rPTH1 mPTH1 hPTH1	CTICAACTCC TICCAGGGAT TITTIGHIGG CATCATATAC TGTTTCTGCA ANGGTIGAGGT GCAGGGAGAG ATHAG 14 CTICAACTCC TICCAGGGAT TITTIGHIGG CATCATATAC TGTTTCTGCA ANGGTIGAGGT GCAGGCAGAG ATHAG 14	109 112 112 112
dPTH1 rPTH1 mPTH1 hPTH1	GAATTOTTEG AGCCGCTEGA CACTEGGGTT GGACTTCAAG CGCAANGGAC GAAGTIGGGAG TAGCAGTTAC AGCTA  1.6 CAATTOTTEG AGCCGCTEGA CACTEGGATT GGACTTCAAG CGTIAANGGAC GAAGTIGGGAG TAGCAGTTAC AGCTA  1.6 CAATTOTTEG AGCCGCTEGA CACTEGGATT GGACTTCAAG CGTIAANGGAC GAAGTIGGGAG TAGCAGTTAC AGCTA  1.6 CAATTOTTEG AGCCGCTEGA CACTEGGATT GGACTTCAAG CGTIAANGGAC GAAGTIGGGAG TAGCAGTTAC AGCTA  1.6 CAATTOTTEG AGCCGCTEGA CACTEGGATT GGACTTCAAG CGTIAANGGAC GAAGTIGGGAG TAGCAGTTAC AGCTA  1.6 CAATTOTTEG AGCCGCTEGA CACTEGGATT GGACTTCAAG CGTIAANGGAC GAAGTIGGGAG TAGCAGTTAC AGCTA  1.6 CAATTOTTEG AGCCGCTEGA CACTEGGATT GGACTTCAAG CGTIAANGGAC GAAGTIGGGAG TAGCAGTTAC AGCTA  1.6 CAATTOTTEG AGCCGCTEGA CACTEGGATT GGACTTCAAG CGTIAANGGAC GAAGTIGGGAG TAGCAGTTAC AGCTA  1.6 CAATTOTTEG AGCCGCTEGA CACTEGGATT GGACTTCAAG CGTIAANGGAC GAAGTIGGGAG TAGCAGTTAC AGCTA  1.6 CAATTOTTEG AGCCGCTEGA CACTEGGATT GGACTTCAAG CGTIAANGGAC GAAGTIGGGAG TAGCAGTTAC AGCTACTACTACTACTACTACTACTACTACTACTACTACTAC	484 487 487 487
dPTH1 rPTH1 mPTH1 hPTH1	GGGCCGGATG GTGTGTCACA CHARGETGAC CAATGTGGGC CCCCGTGCAG GACTCAGCCT DCCCCTLAGC CCCCG 1 TGGCCCGATG GTGTGTCACA CHARGETGAC CAATGTGGGC CCCCGTGCAG GACTCAGCCT DCCCCTLAGC CCCCG 1	559 562 562 562
dPTH1 rPTH1 mPTH1 hPTH1	CCTTGGCT GCCGCTGCCG CCACCACCAC LIGCCACTIACC AATIGGCCAGT CCCAGGTGCC TIGGCCATGCC AAGCC 1	1634 1616 1616 1619
dPTH1 rPTH1 mPTH1 hPTH1	AGGGGGGCCA ACCULTITUTE TO THE AGAIN CETIACCAGET ACTIVITIES OF TITLE COMAGGA CGAINGGATTC CTIVAL AGGGGCTCA ACCULTAGA A	17 <b>90</b> 1688 1688 1694
dPTH1 rPTH1 mPTH1 hPTH1	GGCTCCTGC TCGGGGCTGG ADGAGGAGGC CTCTGGGGGG GAGCGGCCTC CLGCCGTGGT GCAGGAGAGAG TGGGA GGCTCCTGC TCAGGCCTGG ANGAGGAGGC CTCTGGGTGT GDGCGGCGGC CTCCATTGTT GCAGGAAGAA TGGGA TGGCTCCTGC TCGGGTCTGG ANGAGGAGGC CTCTGGGTGT GDGCGGCGAC CTCCATTGTT GCAGGAAGAA TGGGA GGCTCCTGC TCAGGGCTGG ADGAGGAGGC CTCTGGGGCGT GAGCGGCGAC CTGCCGTGGT ACAGGAAGAG TGGGA	1775 1763 1763 1769
dPTH1 rPTH1 mPTH1 hPTH1	GACIGTCATG TGA AACIGTCATG TGA AACIGTCATG TGA GACIGTCATG TGA	1788 1776 1776 1782

188 188 188 188	200 200 200 200	299 300 300 300	399 4 4 8 8 8 4 8 8 8	499 500 500 500	595 591 591 593
MGAVRIAPGL ALLLCCPVLS SAYALVDADD VMTKEEQIFL LHRAQAQQQK MLKEVUQRPA DIMESDKGWA SASTSGKPKK EKASGKLYPE SEEDKEVPTG	SRHRGRPCLP EWDHIJCWPL GAPGEVVAVP CPDYIYDFNH KGHAYRRCDR NGSWEJVPGH NRTWANYSEC WKFLTNETRE REVFDRLGMI YTVGYGVSLA	SLTVAVLILA YFRRLHCTRN YIHMH (FLSF MLRAVSIFVK DAVLYSGÅTL DEAERLTEEE LRAIAGAPPP PTAAA GYAG CRVAVTFFLY FLATNYYWIL	VEGLYLHSLI FMAFFSEKKY LWGFTVFGWG LPAVFVAVWV SVRATLANTG CWDLSSGMKK WIIQVPILAS IVLNFILFIN IVRVLATKLR ETNAGRCDTR	QQYRKLUKST LVUMPLFGVH YIVFMATPYT EVSGTLWQYQ MHYEMLFNSF QGFFVAIIYC FCNGEVQAEI MKSWSRWTLA LDFKRKARSG SSSYSYGPNV	SHTSVTNVGP RAGUGLPLSP RLUPAAAATT TATTINGHPPI PGHTKPGAFTLPATFPA TAAPKDOGFL NGSCSGLDEE ASAPERPPAL LQEEWETVM SHTSVTNVGP RAGUGLPLSP RLHPATT.NGHSQL PGHAKPGAFA IET-ETUPVT MAVPKDOGFL NGSCSGLDEE ASSARPPFL LQEEWETVM AHTSVTNVGP RAGUGLPLSP RLUPATTINGHSQL PGHAKPGAFA IEN-ETIPVT MTVPKDOGFL NGSCSGLDEE ASGSARPPFL LQEEWETVM SHTSVTNVGP RWGUGLPLSP RLUPTATITNGHPQL PGHAKPGTFA LETTTPPA MAAPKDOGFL NGSCSGLDEE ASGPERPPAL LQEEWETVM SEG. ID NO. 28 APTH1.
MGAARIAPSL ALLLCCPVLS SAYALVDADD VFTKEEQIFL LHRAQAQQOK ULKEVUHTAA NIMESDKGWT PASTSGKPRK EKASGKFYPE SKENKDVPTG	SRARGRPCLP EWDNIVCWPL GAPGEVVAVP CPDYIYDFNH KGHAYRRCDR NGSWEVVPGH NRTWANYSEC LLKFMTNETRE REVFDRLGMI YTVGYGNSLA	SLTVAVLILA YFRRLHCTRN YIHMHNFLSF MLRAASIFVK DAVLYSGFTL DEAERLTEEE LHIIAGVPPP PAAAAVGYAG CRVAVTFFLY FLATNYYWIL	VEGLYLHSLI FMAFFSEKKY LWGFTJFGWG LPAVFVAVWV GVRATLANTG CWDLSSGHKK WIIQVPILAS WVLNFILFIN IIRVLATKLR ETNAGRCDTR	QQYRKLURST LVUVPLFGVH YTVFMALPYT EVSGTLWQIQ MHYEMLFNSF QGFFVAIIYC FCNGEVQAEI RKSWSRWTLA LDFKRKARSG SSSYSYGPNV	
MGTARIAPSL ALLLCCPVLS SAYALVDADD VFTKEEQIFL LHRAQAQQOK ULKEVUHTAA NIMESDKGWT PASTSGKPRK EKAPGKFYPE SKENKDVPTG	SRARGRPCLP EWDNIVCWPL GAPGEVVAVP CPDYIYDFNH KGHAYRRCDR NGSWEVVPGH NRTWANYSEC LLKFMTNETRE REVFDRLGMI YTVGYGNSLA	SLTVAVLILA YFRRLHCTRN YIHMHNFLSF MLRAASIFVK DAVLYSGFTL DEAERLTEEE LHIIAGVPPP PAAAAVGYAG CRVAVTFFLY FLATNYYWII	VEGLYLHSLI FMAFFSEKKY LWGFTJFGWG LPAVFVAVWV GVRATLANTG CWDLSSGHKK WIIQVPILAS WVLNFILFIN IIRVLATKLR ETNAGRCDTR	QQYRKLURST LVUVPLFGVH YTVFMALPYT EVSGTLWQIQ MHYEMLFNSF QGFFVAIIYC FCNGEVQAEI RKSWSRWTLA LDFKRKARSG SSSYSYGPNG	
MGTARIAPGL ALLLCCPVLS SAYALVDADD VMTKEEQIFL LHRAQAQQEK FLKEVUQRPA SIMESDKGWT SASTSGKPRK DKASGRIYPE SHEDKEAPTG	SRYRGRPCLP EWDHIJLCWPL GAPGEVVAVP CPDYIYDFNH KGHAYRRCDR NGSWEJLVPGH NRTWANYSEC WKFLTNETRE REVFDRLGMI YTVGYGVSLA	SLTVAVLILA YFRRLHCTRN YIHMHUFLSF MLRAVSIFVK DAVLYSGATL DEAERLTEEE LRAIAGAPPP PATAAAGYAG CRVAVTFFLY FLATNYYWII	VEGLYLHSLI FMAFFSEKKY LWGFTVFGWG LPAVFVAVWV SVRATLANTG CWDLSSGMKK WIIQVPILAS IIVLNFILFIN IVRVLATKLR ETNAGRCDTR	QQYRKLURST LVUMPLFGVH YIVFMATPYT EVSGTLWQYQ MHYEMLFNSF QGFFVAIIYC FCNGEVQAEI MKSWSRWTLA LDFKRKARSG SSSYSYGPNV	
dPTH1	dPTH1	dPTH1	dPTH1	dPTH1	dPTH1
rPTH1	rPTH1	rPTH1	rPTH1	rPTH1	rPTH1
mPTH1	mPTH1	mPTH1	mPTH1	mPTH1	mPTH1
hPTH1	hPTH1	hPTH1	hPTH1	hPTH1	hPTH1

Figure 4



